

M Y Ajith Kumara

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Experienced Software Engineer with over a decade of expertise in enterprise application development, committed to engineering innovative programs that prioritize scalability, reliability, and performance. Passionate about leveraging cutting-edge technologies to drive impactful solutions, I excel in dynamic environments where I can contribute my skills to deliver outstanding results.

Technical Skills

- Programming Languages: Java, SQL, JavaScript, Node.js
- Enterprise Java: Core Java, JSP, Servlet, Spring MVC, Struts, Spring Boot, Hibernate
- Web Services: SOAP, REST
- Project Management Tools: JIRA, Confluence, Slack, Redmine
- Web Development Platforms: WordPress, Joomla
- Deployment and Monitoring Tools: GitHub, Jenkins, Docker, Maven, Kubernetes, Rancher, Zabbix
- Testing Tools: Junit, SoapUI, Postman, Swagger UI
- Databases: MySQL, PostgreSQL, MSSQL
- JavaScript Frameworks: ReactJS
- Web & Application Servers: JBoss, Apache Tomcat, Nginx
- Cloud Platform Experience: Knowledgeable in private and public Cloud Platforms such as AWS and Lanka Government Cloud
- Linux Administration: Proficient in Linux Ubuntu operating systems and shell scripting

Work & Project Experience

Lead Software Engineer [2023 September– Up to Date]

XENO HR Product - Genesiis Software (Pvt) Ltd

- Led the development and deployment of "XENO," a sophisticated HR optimization solution employing multitenant architecture to seamlessly manage multiple organizations' HR operations.
- Providing technical guidance and mentorship to junior team members.
- Implement authentication and authorization mechanisms using Spring Security.
- Developed REST APIs to facilitate seamless communication between the front-end and back-end systems.
- Configuring and implementing Swagger to generate interactive documentation for REST APIs.
- Use Redis to store session information for user authentication and authorization.
- Developed an email service module and seamlessly integrated it with Mailtrap for comprehensive testing.
- Managed Git repositories for version control, implementing efficient branching strategies and enabling collaborative development workflows. Conducted thorough code reviews and accepted merge requests to integrate feature enhancements, bug fixes, and other changes into the main codebase, ensuring code integrity and quality.
- Implemented CI/CD pipelines utilizing Jenkins, enhancing deployment productivity by 80%.
- **Technologies:** Java, Spring Boot, Hibernate, JPA, SQL Server, ReactJS, Nginx, Maven, Redis, JBoss EAP 7, Git, GitHub.

Lead Software Engineer [2020 December – 2023 September]

Information Communication Technology Agency (ICTA)

- Reading requirement specifications on Redmine, analyzing requirements, and preparing logical technical diagrams and documents to guide the development process.
- Developed Sri Lanka's Smart Vaccination Certificate (SVC) for Covid-19 using DIVOC and integrating with the Ministry of Health's DHIS2 system, issuing over 2 Million Smart Vaccination Certificates (SVCs) to date.
- Played a pivotal role in the development of the Covid-19 Patients Management System, focusing on data organization, real-time monitoring, and reporting functionalities to support healthcare professionals in managing patient data effectively.
- Implemented and configured Zabbix for real-time infrastructure monitoring, log analysis, and proactive alerting, ensuring system reliability and performance optimization.
- Provided SMS solutions for patient management and appointment scheduling, catering specifically to feature phone users, ensuring accessibility and inclusivity in healthcare services delivery.
- Implemented robust backend APIs for the National Fuel Pass System, ensuring secure and efficient data exchange between systems.
- Integrated Bank of Ceylon (BOC) payment gateway with Lanka Government Payment Service (LGPS) to facilitate secure and seamless online transactions.
- Providing technical guidance and mentorship to junior team members.
- Led the migration of e-services applications to the Lanka Government Cloud (LGC), ensuring a seamless transition and compliance with government regulations and security standards.
- Orchestrated the deployment of applications through Kubernetes on the Lanka Government Cloud, optimizing scalability, reliability, and resource utilization while adhering to government regulations and security standards.
- Actively involved in production support, troubleshooting issues and handling customer complaints.
- **Technologies:** Java, Spring Boot, Hibernate, JPA, MySQL, ReactJS, Git, GitHub, Nginx, Maven, Rancher, Zabbix, Keycloak, Kubernetes, Docker, Jasper Reports, WSO2 ESB.

Senior Software Engineer [2018 June – 2020 December]

Rezgateway (Pvt) Ltd

- Participated collaboratively with the team in reviewing user stories on JIRA, analyzing the requirements iteratively, and collectively preparing logical technical diagrams and documents to guide the development process.
- Developed a comprehensive Travel Solution utilizing microservice architecture to efficiently manage flight, hotel, car, and activity reservations, along with inventory and back-office operations.
- Designed and implemented each aspect of the solution as a separate microservice, allowing for independent development, deployment, and scalability.
- Utilized RESTful APIs for communication between microservices, enabling seamless integration and interoperability.
- Implemented service discovery and load balancing mechanisms to ensure high availability and fault tolerance across the microservices.
- Implemented event-driven communication patterns using message brokers such as WSO2 MB to facilitate asynchronous communication and decoupling between microservices.
- Providing technical guidance and mentorship to junior team members.
- Reviewing and accepting merge requests to incorporate feature enhancements, bug fixes, and other changes into the main codebase, ensuring code integrity through code reviews.
- Actively involved in production support, troubleshooting issues and handling customer complaints.
- **Technologies:** JAVA, Spring(MVC), Spring Boot, Hibernate, JPA, Memcached, Jboss Server, PostgreSQL, AWS, Jenkins, Ansible, Git, GitLab, Gradle, WSO2 MB.

Senior Software Engineer [2014 May – 2018 June]

Information Communication Technology Agency (ICTA)

- Analyzed and defined functional and technical specifications for ERL 1.0, designing an architecture to support real-time transaction processing and data synchronization.
- MySQL Replication for High Availability: Implemented MySQL database replication to ensure high availability and data consistency across multiple instances, enhancing fault tolerance and scalability.

- HAProxy Load Balancing: Configured HAProxy for load balancing between multiple backend servers, improving system availability, fault tolerance, and scalability by distributing traffic evenly across instances.
- DMT Database Migration to LGC Cloud: Led the migration of the DMT on-prem database to LGC Cloud, ensuring a seamless transition and minimal downtime. Implemented data synchronization to ensure consistency between on-prem and cloud databases.
- Designed and implemented a hybrid cloud solution that integrates on-prem infrastructure with the LGC Cloud to provide scalable resources while maintaining control over sensitive data. Optimized data flow between both environments for better performance and cost efficiency.
- Designed and implemented WSO2 ESB-based integration solutions, including mediation sequences, message routing, and transformation logic for connecting ERL 1.0 with various external systems.
- Utilized JMeter for performance testing to validate system scalability and response times under heavy load. Optimized transaction flows, reducing response times by 30% and significantly improving overall performance.
- Enhanced database queries and synchronization logic, improving transaction processing speed. Implemented logging and monitoring solutions for real-time issue tracking and system performance.
- Collaboration & Documentation: Collaborated with cross-functional teams to refine business logic and documented all technical processes in Redmine & Nextcloud, ensuring efficient project management and knowledge sharing.
- Utilized Log4j for auditing and implemented Grafana and the ELK stack for enhanced monitoring and observability.
- Managed source code versioning, resolved merge conflicts, conducted code reviews through GitHub PRs, and implemented branching strategies to foster seamless collaboration and optimize development workflows.
- **Technologies:** Java, Struts, Spring (MVC), Hibernate, JPA, Tomcat, HAProxy, MySQL, Jasper Report, WSO2 ESB, Git, GitHub, Grafana.

Software Engineer [2011 December– 2014 May]

IdeaHub (Pvt) Ltd

- Reading requirement specifications and analyzing requirements.
- Designed and implemented software modules to establish communication between the POS machine and the Travel Card system, facilitating real-time transaction processing and data synchronization.
- Utilized secure protocols and encryption techniques to ensure the integrity and confidentiality of data exchanged between the POS machine and the Travel Card system.
- Designed, developed, and maintained integration solutions using WSO2 Enterprise Service Bus (ESB) to facilitate seamless communication between disparate systems.
- Implemented mediation sequences, message routing, and transformation logic within WSO2 ESB to support various integration scenarios.
- Conducted thorough testing and validation to verify the functionality, reliability, and security of the bus ticketing POS machine and data synchronization services.
- Actively involved in production support, troubleshooting issues and handling customer complaints.
- **Technologies:** Java, MySQL, Apache Ant, Apace2, HAProxy, WSO2 ESB, AWS, GitHub.

Education & Professional Qualifications

Bachelor of Computer Science – University of Colombo School of Computing (2008-2012).

Achieved certificates of the JICA Young Leaders Training Program (2021).

G.C.E (A/L) Examination, Mathematics Stream.